NPIC/PADS/D/6-1349 6 May 1966

MEMORANDAM FOR:	Deputy Chief, Deve Development Staf	lopment Branch, Plans and	
SUBJECT:	Supplement to	Report 65-9225-1	25X
in support of the Printer. The sup questions request and	ir Feasibility Rep plement contains t ad by the Project	emental report and other do ort on a Multiple Image Int he graphs and the answers to Monitor on 11 February 1966 ered additional questions a NPIC on 26 April 1966.	egration 25X
printer at 12X may with a typical his are presented for some improvement but very little is an important point perception is are	gnification is congh quality enlarge film type 3404, 3 in resolution can approvement in resolution out is brought out it atly improved on taput. This is als	the transfer function of the parable to the results obtained in the results obtained in the parable to the results obtained in coarse grain olution from high definition in Figure 10, the threshold cri-X for the integrated in the second comphasized again in the second comphasized co	ined caphs te that led film film. of
1959 and publishe article pretty we technique that is	d in the Journal of the substantiates to proposed by less on the slow sea	the Image Dissector-Follow S The last paragraph of the	lhis Spot
4. Other po	ints that were bro	ought out in the report or t	the
100-150 line	s/mm. Any attempt	ion for input materials is a t to increase the resolution ize and an increase in magni	n would
b. The	e video bandwidth v	rill be 20 megacycles per se technique will be used and	econd the

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dawngrading and
declassification

30 frame per second display rate will not have to be maintained.

c. The Image Integration Printer will not appreciably increase resolution but it will improve the information content by improving the contrast of low contrast images, reveal image detail in shadows or low contrast areas by superimposition of images from various missions, and by detecting change in several missions. d. The main function of the instrument is as a printer and not as a viewer, therefore, the flicker display rate will not bontract. be a major factor as it was in the 25X1 e. There will be 10 steps of contrast as explained in the report, the computation in the earlier report was based on high contrast and only two steps were used to indicate the maximum effect. f. Illumination is not a problem when the follow spot technique is used. g. The time to produce a slow scan print out is approximately one second. 5. All the questions have been answered satisfactorily by 25X1 and the state-of-the-art somears to have made major advances since contracts. All indications are that 25X1 the days of the will be a useful instrument for the the instrument proposed by 25X1 integration of grain limited images by increasing the signal-to-noise ratio. estimates that it can produce a working instrument with 25X1 the remaining funds. It is recommended that the Office of Logistics be instructed to establish a new completion date and authorize 25X1 to proceed with the fabrication of the instrument. 25X1 proposed for an 7. Attachment 2 contains changes that incentive type contract covering Phase II. It is recommended that the proposed changes in the incentive contract be rejected. The feasibility study shows that a signal-to-noise ratio of 1.7 is possible and that a maximum resolution of 130 lines may be achieved. The incentive targets they recommend are almost sure of achievement. 25X1 Development Branch, Paus

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Attachments:

1.	Report 65-9225-1	25X1
2 - 3. - 4	Letter Dated 8 December 1965 - Article from J. of SMFTE, dated September 1965 Supplement Report	25X1

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1 - Project File (99848-5)

2 - DB Chronos

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